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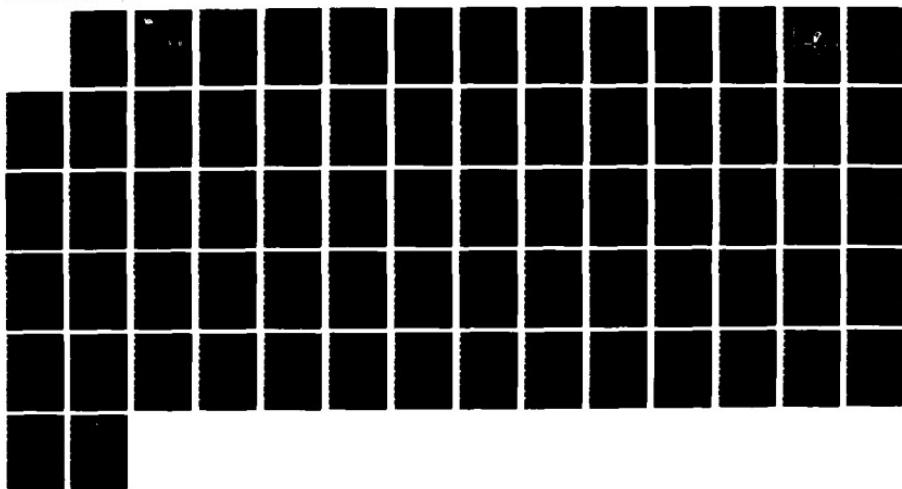
PNEUDRAULIC SYSTEMS MECHANIC CIVILIAN OCCUPATIONAL  
SERIES 8255(U) AIR FORCE OCCUPATIONAL MEASUREMENT  
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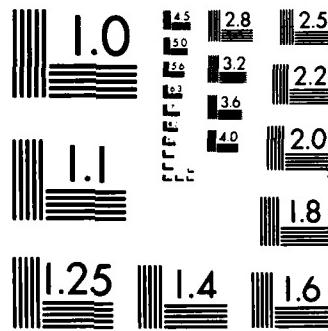
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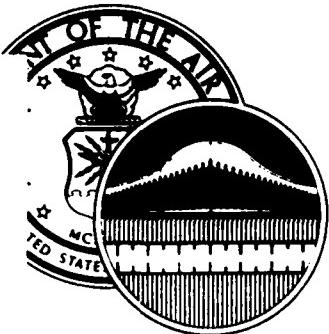
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UNITED STATES AIR FORCE

# OCCUPATIONAL SURVEY REPORT

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PNEUDRAULIC SYSTEMS MECHANIC

CIVILIAN OCCUPATIONAL SERIES  
8255

AFPT 90-825-793

JULY 1987

OCCUPATIONAL ANALYSIS PROGRAM  
USAF OCCUPATIONAL MEASUREMENT CENTER  
AIR TRAINING COMMAND  
RANDOLPH AFB, TEXAS 78150-5000

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## TABLE OF CONTENTS

	<u>PAGE NUMBER</u>
PREFACE. . . . .	iii
SUMMARY OF RESULTS . . . . .	iv
INTRODUCTION . . . . .	1
Background . . . . .	1
SURVEY METHODOLOGY . . . . .	2
Inventory Development. . . . .	2
Survey Administration. . . . .	2
Data Processing and Analysis . . . . .	2
Survey Sample. . . . .	2
Specialty Structure Overview . . . . .	5
Job Structure Overview . . . . .	5
Job Descriptions . . . . .	7
Comparison of Specialty Jobs . . . . .	23
Paygrade Analysis. . . . .	23
Maintenance Enhancement Training Analysis. . . . .	26
TRAINING ANALYSIS. . . . .	29
SUMMARY. . . . .	29
APPENDIX A - TASKS PERFORMED BY JOB GROUP MEMBERS. . . . .	31
APPENDIX B - TASKS PERFORMED BY WAGE GRADE . . . . .	32
APPENDIX C - DIFFERENTIATING TASKS BETWEEN WAGE GRADES WITHIN EACH SHOP . . . . .	33

## PREFACE

This report presents the results of an occupational survey report of the Pneudraulic Systems Mechanic (Occupational Series 8255). The survey was requested by the Directorate of Maintenance, Kelly AFB, to obtain task data for use in planning, designing, implementing, recording, and validating training with the intention of creating a civilian occupational series training standard (OSTS) and job qualification training standard (JQTS). Authority for conducting occupational surveys is contained in AFR 35-2. Computer products upon which this report is based are available for use by operations and training officials.

The survey instrument for this project was developed by Mr Michael Fodale and Mr Ted Wilcox, Inventory Development Specialists. Ms Becky Hernandez, Computer Programmer, provided computer support, and Mr Richard G. Ramos provided administrative support for this project. Lieutenant Ernest T. Demetriades, Occupational Analyst, analyzed the survey data and wrote the final report. This report was reviewed and approved by Dr. Linda S. Aslett, Chief, Management Applications Branch, Occupational Analysis Division, USAF Occupational Measurement Center.

Copies of this report are distributed to HQ SA-ALC/MA, Kelly AFB and other interested training and management personnel (see DISTRIBUTION on page 1). Additional copies are available upon request to the USAF Occupational Measurement Center, Attention: Chief, Occupational Analysis Division (OMY), Randolph AFB, Texas 78150-5000 (AUTOVON 487-6623).

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## SUMMARY OF RESULTS

1. Survey Coverage: The Pneudraulic Systems Mechanic, Occupational Series 8255, was surveyed at Kelly AFB, Texas. The total survey sample contained 420 members, which was approximately 88 percent of the population.
2. Specialty Jobs: The study identified 3 clusters, covering 11 job types and 7 independent job types. Most groups performed the same general maintenance and administrative or supply functions. Differences surfaced in the type of equipment overhauled, the overhaul function performed, and the amount of time spent on these tasks.
3. Wage Grade Differences: The WG-05 personnel primarily performed cleaning and disassembly tasks, while the WG-09 personnel did repair and inspection tasks. On the average, the WG-09 performed the largest number of tasks, as well as the broadest range of tasks. The WG-10 personnel mainly performed tasks associated with testing and assembly.
4. Maintenance Enhancement Training: The highest course completion rate was among the WG-09 personnel and in the MATPPA shop (airframe accessories). The courses completed by the largest percentage of personnel dealt with shop safety, basic math, and administrative forms. Course completion for the remaining nine classes was well below that of the top three.
5. Training Analysis: Suggested tasks to be included in an occupational series training standard (OSTS) and a job qualification training standard (JQTS) were discussed for the 8255 Occupational Series. Of primary interest were the tasks performed by wage grade. Distinguishing tasks were also presented to give a clearer representation of the wage grades.
6. Summary: The analysis was conducted and presented in a manner determined most beneficial to the training personnel at Kelly AFB for the development of the OSTs and JQTS. Survey analysis shows a job structure similar to the current one. Upon request OMC will provide additional assistance in the development of the OSTs and JQTS.

OCCUPATIONAL SURVEY REPORT  
PNEUDRAULIC SYSTEMS MECHANIC  
(OCCUPATIONAL SERIES 8255)

INTRODUCTION

This is an occupational survey report of civilian personnel at Kelly AFB in the Pneudraulic Systems Mechanic career field completed by the Occupational Analysis Division, USAF Occupational Measurement Center. This is the first survey of this occupational series. The survey was requested by the Directorate of Maintenance, SA-ALC/MA, Kelly AFB, to obtain current task data for use in planning, designing, implementing, recording, and validating training, with the intention of creating a civilian occupational series training standard (OSTS) and job qualification training standard (JQTS).

Background

The 475 civilian personnel in Occupational Series 8255, Assembly Line Pneudraulic Mechanics, are assigned to five work centers referred to as shops or resource control centers (RCC) at Kelly AFB. The shops are MATPFA, MATPFF, MATPPA, MATPPE, and MATPPH. The RCC designations are broken down as follows: MA (maintenance), T (technology), P (pneudraulic), and the last two letters represent the specific shop. The MATPFA and MATPFF shops overhaul, repair, inspect, and test fuel controls. Specifically, the F-100 unified fuel control (UFC) unit is handled in MATPFA, and the TF-56 and TF-39 fuel controls (FC) and nozzles are handled in MATPFF. Airframe accessories (valves, pumps, etc.) from all aircraft in the present and past Air Force inventory, as well as gas turbine engines (GTE), are worked on in MATPPA. Fuel systems in the three engines (F-100, TF-56, and TF-39) and disassembly of nozzles and T-56 FC are the responsibility of MATPPE. The final shop, MATPPH, is concerned with pneudraulic and hydraulic equipment on aircraft.

Personnel entering the 8255 career field may or may not have prior training. Those individuals entering with experience, usually prior military service from the aircraft maintenance field, enter directly into a particular shop with a minimum of training. For personnel with no experience, there is the apprentice program, lasting 2 years, with advancement in grade from WG-00 to WG-10 on completion of the program. The apprentice program consists of specialized courses taught by Southwest Center, which is affiliated with local educational institutions, and training personnel at Kelly AFB, as well as on-the-job training (OJT) in each of the five shops. In the last 6 months of the program, the individual is assigned to a shop and begins work on a particular workline. In addition, the Cooperative Education Program (COOP) provides students studying pneudraulics at Palo Alto College with the opportunity to work in the pneudraulics area, with an option to convert to employment. This is a 2-year program with grades ranging from WG-03 to WG-08.

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## SURVEY METHODOLOGY

### Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-825-793, dated May 1986. A task list was prepared after conducting interviews and reviewing work control documents at Kelly AFB. This process resulted in a final job inventory containing 606 tasks grouped under 19 duty headings and a background section containing such information as office symbol, equipment and tools used, and enhancement training courses completed.

### Survey Administration

During the period of September to December 1986, training leaders and general foremen in each of the five shops administered the inventory to nonsupervisory job incumbents in Occupational Series 8255 at Kelly AFB. Each individual who completed the survey first completed identification and biographical information and then checked each task performed in their current job. After selecting all tasks performed, each participant rated each task on a 9-point scale showing relative time spent on that task as compared to all other tasks checked. The ratings ranged from 1 (very small amount of time spent) to 5 (average time spent) through 9 (very large amount of time spent). The incumbent's ratings are combined and the total assumed to represent 100 percent of the time spent on the job. Each task rating is divided by this total and multiplied by 100 to obtain the relative time spent for each task. This procedure provides a basis for comparing tasks in terms of both percent members performing and average percent time spent.

### Data Processing and Analysis

Once the job inventories are returned, the background information and task responses are checked for proper completion. The data are then entered into the computer and a series of computer programs, called Comprehensive Occupational Data Analysis Programs (CODAP), are then applied to the data to aid in analysis.

### Survey Sample

Considering the relatively small number of civilian personnel involved in Occupational Series 8255 at Kelly AFB, all personnel were selected to participate in the survey. Participation was strictly on a voluntary basis. Table 1 displays the percentage distribution of assigned Occupational Series 8255 personnel across resource control centers as of November 1986. Also shown is the percentage of respondents. Table 2 reflects the paygrade distribution and Table 3 presents the sample distribution by time in Occupational Series 8255.

TABLE 1  
RESOURCE CONTROL CENTER REPRESENTATION OF SURVEY SAMPLE

<u>RESOURCE CONTROL CENTER</u>	<u>PERCENT OF EMPLOYED** (N=475)</u>	<u>PERCENT OF SAMPLE* (N=420)</u>
MATPFA	37	39
MATPFF	11	10
MATPPA	15	16
MATPPE	19	16
MATPPH	18	14

Total Eligible Employed: 475 (approximate)

Total in Sample: 420

Percent of Employed in Sample: 88%

\* Does not equal 100 percent due to improper book completion

\*\* As of November 1986

TABLE 2  
PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

<u>PAYGRADE</u>	<u>PERCENT OF EMPLOYED</u>	<u>PERCENT OF SAMPLE*</u>
WG-00	2	3
WG-05	10	10
WG-07	1	**
WG-09	38	37
WG-10	49	47

\* Does not equal 100 percent due to improper book completion  
\*\* Less than 1 percent

TABLE 3  
TOTAL TIME IN OCCUPATIONAL SERIES OF SURVEY SAMPLE

	MONTHS IN OCCUPATIONAL SERIES					
	<u>1-48</u>	<u>49-96</u>	<u>97-144</u>	<u>145-192</u>	<u>193-240</u>	<u>241+</u>
NUMBER IN SAMPLE	46	80	164	63	21	34
PERCENT IN SAMPLE*	11	19	39	15	5	8

\* Does not equal 100 percent due to improper book completion

## Specialty Structure Overview

A key aspect of an occupational survey is to identify the distinct jobs that are actually being performed as opposed to what the official job structure and work order documents state. Using CODAP, job functions are identified on the basis of similarity in tasks performed and the relative time spent performing the tasks. Each person in the study performs a subset of tasks. When grouped with other people who perform the same or similar tasks and spend similar amounts of time doing so, these personnel form a job. Jobs that have a high degree of similarity are grouped into a cluster. The jobs found too dissimilar to be included in a cluster are labeled independent jobs. The above terms will be used in the description of Pneudraulic Systems Mechanics.

## Job Structure Overview

The job structure for Pneudraulic Systems Mechanics was determined by performing a job analysis of the 420 survey respondents. Based on task similarity and the amount of time spent on each task, the jobs performed by the Pneudraulic Mechanics separated into 3 clusters containing 11 jobs and into 7 independent jobs. Figure 1 illustrates the relative size of each cluster and independent job within the total sample. The group (GRP) number shown beside each title is a reference to computer-printed information. The number (N) of personnel in the group is also displayed. The number of personnel in each cluster does not necessarily equal the sum of the job types listed within the cluster. In these cases, the remainder of the personnel are adequately described in the cluster definition.

### I. VALVE AND PUMP PERSONNEL CLUSTER (GRP18, N=96)

- A. Airframe Valve and Pump Personnel (GRP81, N=73)
- B. Fuel System Valve and Pump Personnel (GRP72, N=5)
- C. Hydraulic System Valve Personnel (GRP77, N=11)

### II. F-100 UFC PERSONNEL CLUSTER (GRP74, N=153)

- A. F-100 UFC Test Personnel (GRP87, N=83)
- B. Augmentor Computer Overhaul Personnel (GRP125, N=21)
- C. Gas Generator and Distribution Body Overhaul Personnel (GRP115, N=11)
- D. General Maintenance Personnel (GRP135, N=26)
- E. On Condition Maintenance (OCM) Personnel (GRP166, N=7)

### III. FUEL SYSTEM ACCESSORY TEST PERSONNEL (GRP84, N=5)

### IV. NOZZLE AND FC OVERHAUL AND TEST PERSONNEL CLUSTER (GRP55, N=38)

## PNEUMATIC MECHANICS LOG DISTRIBUTION

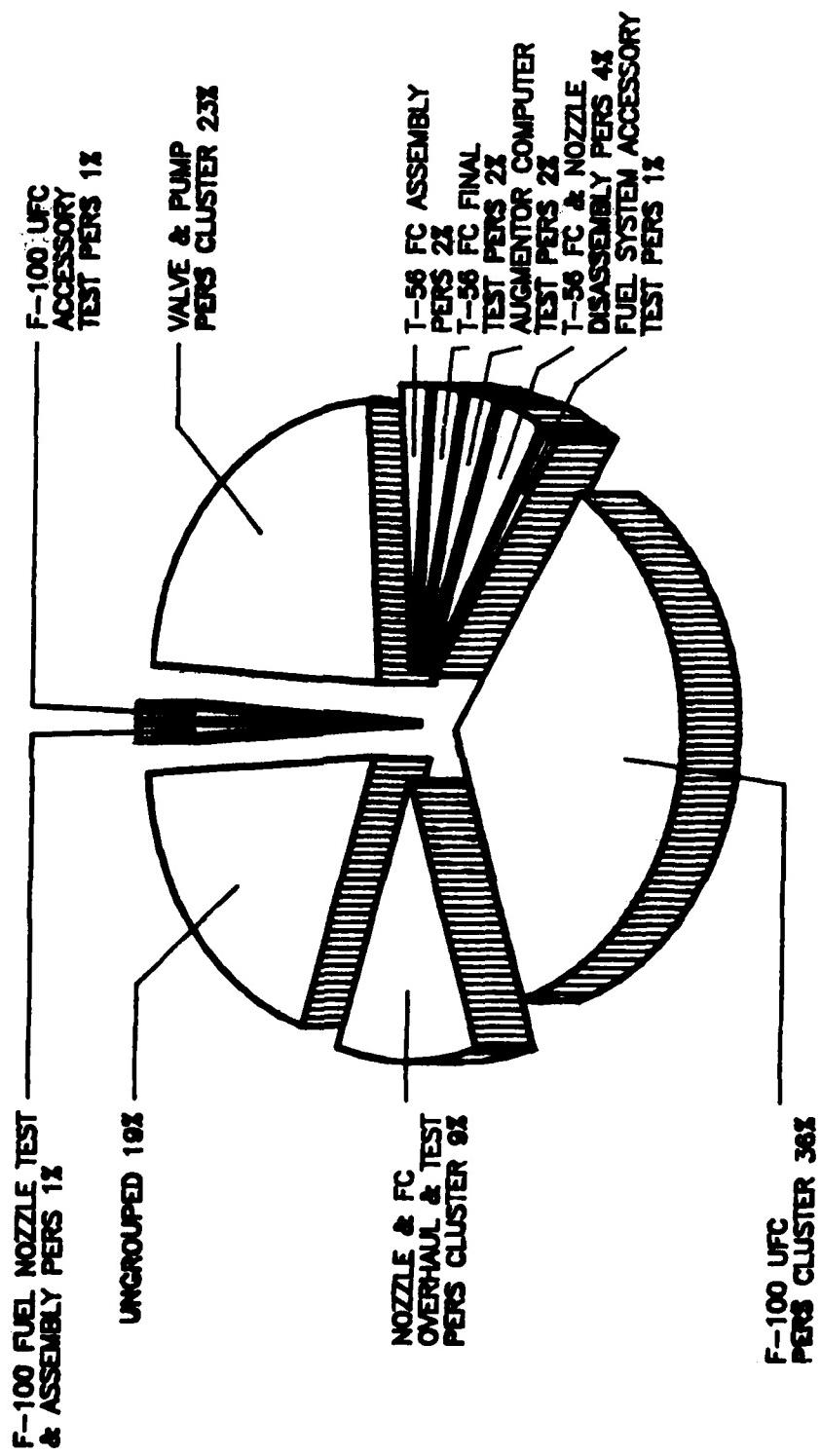


FIGURE 1

- A. TF-39 Fuel Nozzle Test and Assembly Personnel  
(GRP95, N=7)
  - B. General Maintenance and Cleaning Personnel  
(GRP102, N=17)
  - C. T-56 FC Overhaul and Test Personnel (GRP124, N=6)
- V. T-56 FC AND NOZZLE DISASSEMBLY PERSONNEL (GRP92, N=14)
  - VI. T-56 FC ASSEMBLY PERSONNEL (GRP79, N=8)
  - VII. T-56 FC FINAL TEST PERSONNEL (GRP108, N=9)
  - VIII. AUGMENTOR COMPUTER TEST PERSONNEL (GRP64, N=6)
  - IX. F-100 FUEL NOZZLE TEST AND ASSEMBLY PERSONNEL (GRP94, N=5)
  - X. F-100 UFC ACCESSORY TEST PERSONNEL (GRP36, N=5)

Eighty-one percent of the survey respondents are represented in the clusters and independent job groups listed above. The remaining 19 percent, though reporting similar job titles, were personnel whose task performance was too dissimilar to group them with any of their peers in the occupational series.

#### Job Descriptions

The following paragraphs contain brief job descriptions of clusters, jobs, and independent jobs identified through the occupational series analysis. Selected background data, including wage grade and shop of group members, are provided in Table 4 and discussed in the groups. Table 5 illustrates the average time spent on duties for all clusters and independent jobs in the study. Examples of tasks for all of the above groups are contained in Appendix A.

There are two duties within which 99 percent of all respondents perform and that comprise 50 percent of the time spent by all members. The first, performing general pneudraulic maintenance tasks, consumes 28 percent of the time spent by all members. Tasks in this duty common to most pneudraulic workers are:

- install and remove safety wire or safety devices
- torque components or parts
- install and remove plugs, caps, or plates
- compare documentation with serial numbers of components or assembly parts
- lubricate components, parts, or packings

TABLE 4  
SELECTED BACKGROUND DATA FOR OCCUPATIONAL SERIES 8255\*

	CLUSTER JOBS		
	AIRFRAME VALVE & PUMP PERSONNEL (GRP18)	FUEL SYSTEM VALVE & PUMP PERSONNEL (GRP81)	HYDRAULIC SYSTEM VALVE PERSONNEL (GRP77)
NUMBER IN GROUP	96	73	5
AVERAGE GRADE	WG-09	WG-09	WG-10
AVERAGE NUMBER OF TASKS PERFORMED	219	249	114
11			
RCC DISTRIBUTION			
MATPFA	2	1	-
MATPFF	3	1	-
MATPPA	60	80	-
MATPPE	16	6	100
MATPPH	19	12	-
9			
AVERAGE MONTHS IN OCCUPATIONAL SERIES	72	76	80
27			
52			

- None in group

\* Columns may not add up to 100 percent due to improper book completion or rounding

TABLE 4 (CONTINUED)  
SELECTED BACKGROUND DATA FOR OCCUPATIONAL SERIES 8255\*

CLUSTER	CLUSTER JOBS				ON CONDITION MAINTENANCE (OCM)	PERSONNEL (GRP 166)
	F-100 UFC TEST PERSONNEL (GRP 87)	AUGMENTOR COMPUTER OVERHAUL PERSONNEL (GRP 125)	GAS GENERATOR & DISTRIBUTION BODY OVERHAUL PERSONNEL (GRP 115)	GENERAL MAINTENANCE PERSONNEL (GRP 135)		
NUMBER IN GROUP	153	83	21	11	26	7
AVERAGE GRADE	WG-10	WG-10	WG-10	WG-10	WG-09	WG-10
AVERAGE NUMBER OF TASKS PERFORMED	46	43	68	56	40	41
RCC DISTRIBUTION						
MATPFA	84	98	100	100	100	100
MATPFF	1	-	-	-	-	-
MATPPA	1	1	-	-	-	-
MATPPE	8	-	-	-	-	-
MATPPH	6	-	-	-	-	-
AVERAGE MONTHS IN OCCUPATIONAL SERIES	101	109	108	108	75	71

- None in group  
\* Columns may not add up to 100 percent due to improper book completion or rounding

TABLE 4 (CONTINUED)  
SELECTED BACKGROUND DATA FOR OCCUPATIONAL SERIES 8255\*

<u>CLUSTER</u>	<u>CLUSTER JOBS</u>
<u>NOZZLE &amp; FC OVERHAUL AND TEST PERSONNEL (GRP55)</u>	<u>TF-39 FUEL NOZZLE TEST AND ASSEMBLY PERSONNEL (GRP95)</u>
NUMBER IN GROUP	38
AVERAGE GRADE	WG-09
AVERAGE NUMBER OF TASKS PERFORMED	85
RCC DISTRIBUTION	
MATPFA	5
MATPFF	24
MATPPA	24
MATPPE	37
MATPPH	5
AVERAGE MONTHS IN OCCUPATIONAL SERIES	73
	95
	46
	96

- None in group

\* Columns may not add up to 100 percent due to improper book completion or rounding

TABLE 4 (CONTINUED)  
SELECTED BACKGROUND DATA FOR OCCUPATIONAL SERIES 8255\*

INDEPENDENT JOBS						
FUEL SYSTEM ACCESSORY TEST PERSONNEL (GRP84)	T-56 FC & NOZZLE DISASSEMBLY PERSONNEL (GRP92)	T-56 FC ASSEMBLY PERSONNEL (GRP79)	T-56 FC FINAL TEST	AUGMENTOR COMPUTER TEST	F-100 FUEL NOZZLE TEST & ASSEMBLY	F-100 UFC ACCESSORY TEST PERSONNEL (GRP36)
NUMBER IN GROUP WG-10	5 WG-05	14 WG-10	8 WG-10	9 WG-10	6 WG-10	5 WG-10
AVERAGE GRADE WG-10	30	49	30	29	36	29
AVERAGE NUMBER OF TASKS PERFORMED						77
RCC DISTRIBUTION MATPFA	20	-	-	-	100	-
MATPFF	-	-	100	100	-	100
MATPPA	-	-	-	-	-	-
MATPPE	80	100	-	-	-	-
MATPPH	-	-	-	-	-	-
AVERAGE MONTHS IN OCCUPATIONAL SERIES	109	15	175	106	107	95
						54

- None in group  
\* Columns may not add up to 100 percent due to missing data or rounding

TABLE 5  
PERCENT TIME SPENT ON DUTIES BY CLUSTERS AND INDEPENDENT JOBS

DUTIES	VALVE & PUMP PERSONNEL CLUSTER (N=96)	F-100 UFC PERSONNEL CLUSTER (N=153)	NOZZLE & FC OVERHAUL PERSONNEL CLUSTER (N=38)	FUEL SYSTEM & TEST PERSONNEL (N=5)	T-56 FC & NOZZLE DISASSEMBLY PERSONNEL (N=14)
A PERFORMING GENERAL PNEUDRAULICS MAINTENANCE TASKS	13	35	29	43	21
B PERFORMING ADMINISTRATIVE OR SUPPLY FUNCTIONS	12	27	25	28	21
C OVERHAULING, REPAIRING, INSPECTING, OR TESTING F-100 UNIFIED FUEL CONTROLS (UFC)	*	30	*	-	-
D OVERHAULING, REPAIRING, INSPECTING, OR TESTING T-56 FUEL CONTROLS (FC)	*	*	5	*	19
E OVERHAULING, REPAIRING, INSPECTING, OR TESTING TF-39 FUEL CONTROLS (FC)	*	*	1	-	*
F OVERHAULING, REPAIRING, INSPECTING, OR TESTING FUEL NOZZLES	1	*	8	-	13
G OVERHAULING, REPAIRING, INSPECTING, OR TESTING VALVES	35	2	4	4	3
H OVERHAULING, REPAIRING, INSPECTING, OR TESTING PUMPS	14	*	5	2	2
I OVERHAULING, REPAIRING, INSPECTING, OR TESTING BACK-UP FUEL CONTROLS (FC)	*	*	*	-	-
J OVERHAULING, REPAIRING, INSPECTING, OR TESTING FUEL AND REFUELING TRANSFER COMPONENTS	4	*	*	-	*
K PERFORMING NONDESTRUCTIVE INSPECTIONS	4	*	3	*	*
L PERFORMING CLEANING AND CORROSION REMOVAL FUNCTIONS	4	1	5	17	

\* Denotes less than 1 percent  
- None in group

TABLE 5 (CONTINUED)  
PERCENT TIME SPENT ON DUTIES BY CLUSTERS AND INDEPENDENT JOBS

DUTIES	VALVE & PUMP PERSONNEL CLUSTER (N=96)	F-100 UFC PERSONNEL CLUSTER (N=153)	NOZZLE & FC OVERHAUL PERSONNEL CLUSTER (N=38)	FUEL SYSTEM & TEST PERSONNEL CLUSTER (N=5)	T-56 FC & NOZZLE DISASSEMBLY PERSONNEL (N=14)
M OVERHAULING, REPAIRING, INSPECTING, OR TESTING OIL OR FUEL SYSTEM RELAYS, INDICATORS, OR SWITCHES	*	*	*	*	*
N OVERHAUL, REPAIR, INSPECT, OR TEST OIL / FUEL SYS REGULATORS, CYLINDERS, PUMP CONTROLS, CYLINDER CONTROLS, AND MOTORS	2	*	3	12	2
O OVERHAULING, REPAIRING, INSPECTING, OR TESTING FUEL FILTER OR STRAINER ASSEMBLIES	3	*	1	-	*
P OVERHAUL, REPAIR, INSPECT, OR TEST OIL COOLERS, OIL AND FUEL HEATERS AND FUEL SENSORS	1	*	*	11	-
Q OVERHAUL, REPAIR, INSPECT, OR TEST PNEUMATIC REGULATORS, CONTROLS, SWITCHES, AIR HOSE ASSEMBLIES, AND FANS	2	*	2	-	*
R OVERHAULING, REPAIRING, INSPECTING, OR TESTING AIRCRAFT CYLINDERS, ACTUATORS, OR CHAMBERS	3	*	2	*	*
S OVERHAULING, REPAIRING, INSPECTING, OR TESTING GAS TURBINE ENGINE (GTE) FUEL CONTROLS (FC)	2	*	3	-	1

\* Denotes less than 1 percent  
- None in group

TABLE 5 (CONTINUED)

## PERCENT TIME SPENT ON DUTIES BY CLUSTERS AND INDEPENDENT JOBS

DUTIES	T-56 FC ASSEMBLY PERSONNEL (N=8)	T-56 FC FINAL TEST PERSONNEL (N=9)	AUGMENTOR COMPUTER TEST PERSONNEL (N=6)	F-100 FUEL NOZZLE TEST & ASSEMBLY PERSONNEL (N=5)	F-100 UFC ACCESSORY TEST PERSONNEL (N=5)
A PERFORMING GENERAL PNEUDRAULICS MAINTENANCE	55	35	24	38	20
TASKS					
3 PERFORMING ADMINISTRATIVE OR SUPPLY					
FUNCTIONS	11	14	14	25	12
C OVERHAULING, REPAIRING, INSPECTING, OR		*		*	
TESTING F-100 UNIFIED FUEL CONTROLS (UFC)					
D OVERHAULING, REPAIRING, INSPECTING, OR		*	54	*	22
TESTING T-56 FUEL CONTROLS (FC)	33	39	*	*	*
E OVERHAULING, REPAIRING, INSPECTING, OR		*	10	*	*
TESTING TF-39 FUEL CONTROLS (FC)	*	*	*	*	*
F OVERHAULING, REPAIRING, INSPECTING, OR		*	*	*	*
TESTING FUEL NOZZLES					
G OVERHAULING, REPAIRING, INSPECTING, OR		*	*	*	
TESTING VALVES		*	*	6	4
H OVERHAULING, REPAIRING, INSPECTING, OR		*	*	*	*
TESTING PUMPS					
I OVERHAULING, REPAIRING, INSPECTING, OR		*	*	*	*
TESTING BACK-UP FUEL CONTROLS (FC)		*	*	*	*
J OVERHAULING, REPAIRING, INSPECTING, OR		*	*	*	*
TESTING FUEL AND REFUELING TRANSFER					
COMPONENTS					
K PERFORMING NONDESTRUCTIVE INSPECTIONS					
L PERFORMING CLEANING AND CORROSION REMOVAL					
FUNCTIONS					

\* Denotes less than 1 percent  
 - None in group

TABLE 5 (CONTINUED)  
PERCENT TIME SPENT ON DUTIES BY CLUSTERS AND INDEPENDENT JOBS

DUTIES	T-56 FC ASSEMBLY PERSONNEL (N=8)	T-56 FC FINAL TEST PERSONNEL (N=9)	AUGMENTOR COMPUTER TEST PERSONNEL (N=6)	F-100 FUEL NOZZLE TEST & ASSEMBLY PERSONNEL (N=5)	F-100 UFC ACCESSORY TEST PERSONNEL (N=5)
M OVERHAULING, REPAIRING, INSPECTING, OR TESTING OIL OR FUEL SYSTEM RELAYS, INDICATORS, OR SWITCHES	*	*	*	*	*
N OVERHAUL, REPAIR, INSPECT, OR TEST OIL/FUEL SYS REGULATORS, CYLINDERS, PUMP CONTROLS, CYLINDER CONTROLS, AND MOTORS	*	*	*	*	*
O OVERHAULING, REPAIRING, INSPECTING, OR TESTING FUEL FILTER OR STRAINER ASSEMBLIES	*	*	*	*	*
P OVERHAUL, REPAIR, INSPECT, OR TEST OIL COOLERS, OIL AND FUEL HEATERS AND FUEL SENSORS	*	*	*	*	*
Q OVERHAUL, REPAIR, INSPECT, OR TEST PNEUMATIC REGULATORS, CONTROLS, SWITCHES, AIR HOSE ASSEMBLIES, AND FANS	*	*	*	*	*
R OVERHAULING, REPAIRING, INSPECTING, OR TESTING AIRCRAFT CYLINDERS, ACTUATORS, OR CHAMBERS	*	*	*	*	4
S OVERHAULING, REPAIRING, INSPECTING, OR TESTING GAS TURBINE ENGINE (GTE) FUEL CONTROLS (FC)	*	*	*	*	*

\* Denotes less than 1 percent  
- None in group

Performing administrative or supply functions is the second most common duty and uses an additional 22 percent of the time spent by all pneudraulic workers. Common tasks include:

- inventory consolidated tool kits (CTK), special tool kits (STK), or individual tool kits (ITK)
- make entries on or complete AFLC Forms 994 (Tool Inventory Log)
- make entries on or complete AFLC Forms 959 (Work Control Document)
- order parts or supplies
- participate in searches for missing tools

The individual tasks listed above are performed by at least 75 percent of all pneudraulic workers. These tasks are not included in the following job descriptions because of their widespread performance.

I. VALVE AND PUMP PERSONNEL CLUSTER (GRP18, N=96). This group of 96 assembly line pneudraulic workers contains three job types and comprises 23 percent of the total survey sample. The average number of tasks performed by the cluster is 219 of the 606 for the entire survey. This cluster contains the broadest range of tasks found in the analysis and the largest concentration of WG-09 personnel (66 percent) in the survey. The cluster is distinguished from the total sample by the high amount of average time spent (49 percent) and high number of members performing overhauling, repairing, inspecting, and testing of valves and pumps.

Although the members of this group spend less time on general pneudraulic maintenance tasks and administrative or supply functions than the rest of the survey respondents, these tasks occupy a quarter of the group's time. Throughout the cluster, these tasks are highly similar in average time spent and members performing. Examples of these tasks include:

- verify configuration of parts or components
- route components, assemblies, or parts to other sections
- bag or package components or parts
- etch, engrave, or metal stamp identification on components or parts
- remove corrosion using hand wire brushes, solvents or thinners
- perform electrical resistance tasks

Three job types compose the cluster. Many of the valves and pumps overhauled in each of the three variations are similar, but they vary in function and location. Often, the time spent on overhauling particular valves or pumps and the number of average tasks performed is the primary difference. A discussion of the three variations follows:

A. Airframe Valve and Pump Personnel (GRP81, N=73). The 73 respondents, mainly from MATPPA (75 percent), are a smaller version of the cluster, similar in wage grade composition and tasks performed. They perform an average of 230 tasks, more than any other group in the analysis. The majority of all valve and pump tasks in the survey are performed by over 50 percent of the personnel. There is little difference in percent members performing and average time spent between the tasks. The valves and pumps in this job are found on the airframe. Over 75 percent of the members are from MATPPA and two-thirds of the personnel are WG-09.

B. Fuel System Valve and Pump Personnel (GRP72, N=5). The five personnel in this job type are characterized by a relatively high amount of time spent (51 percent) overhauling, repairing, inspecting, and testing specific valves and pumps relating to the aircraft fuel system. All members are in the MATPPE shop and are WG-10. The personnel average 113 tasks, almost half the number of the cluster average. Those tasks with the highest percent members performing and time spent include inspecting, adjusting and calibrating, and disassembling poppet, piston, and relief type valves, as well as impeller and vane type pumps.

C. Hydraulic System Valve Personnel (GRP77, N=11). This group of 11 personnel, the majority of whom are WG-09, perform an average of 119 tasks. The members are from MATPPH and overhaul only valves. Those valve tasks involving the most personnel and the highest percent time spent, range from disassembly to test of piston, poppet, and diaphragm valves.

II. F-100 UFC PERSONNEL CLUSTER (GRP74, N=153). The 153 members of this cluster are primarily WG-10 (73 percent) and from MATPFA (84 percent). It is the largest group in the survey, consisting of five jobs. The primary responsibilities of the members include overhauling, repairing, inspecting, or testing F-100 unified fuel controls, as well as general pneudraulic maintenance and administrative or supply functions. The average number of tasks performed is 46 and examples of the tasks include:

- remove plugs caps or plates
- transport parts to other sections
- route components, assemblies, or parts to other sections
- perform preoperational inspections on test stands, test carts, or testers

The five jobs within the cluster break down primarily by overhaul function performed and section of the F-100 overhauled.

A. F-100 Test Personnel (GRP87, N=83). The 83 personnel in this group spend nearly 41 percent of their total time doing functions related to the testing of the F-100 UFC. As would be expected 98 percent are from the MATPFA shop and 89 percent are at a WG-10 level. The characteristic tasks include adjusting and calibrating, isolating malfunctions, and testing F-100 UFC, as well as its three sections, augmentor computers, distributions bodies, and gas generators.

B. Augmentor Computer Overhaul Personnel (GRP125, N=21). This group is similar to the above group in shop and wage grade composition. They perform an average of 68 tasks, more than the cluster average. The personnel in this group disassemble, inspect, and assemble F-100 UFC augmentor computers and assemblies, as well as isolate malfunctions and perform preset adjustments.

C. Gas Generator and Distribution Body Overhaul Personnel (GRP115, N=11). All 11 members of this job group are in MATPFA. They are WG-09 (37 percent) and WG-10 (55 percent). This job is unique in that it is composed of two underlying groups, the first, overhauling gas generators (5 members) and the second, overhauling distribution bodies (DB) (6 members). They are described together because of the high percentage of members performing and time spent on similar general maintenance tasks and administrative or supply functions. Some of these tasks are:

- clean or lubricate tools
- make entries on or complete AFLC Forms 244 (Material Request/Turn-in/Custody Receipt)
- research microfiche files for supply or parts data
- make entries on or complete DD Forms 1577 (Unserviceable (Condemned) Tag Material)
- verify configuration of parts or components

Those personnel who work on the gas generator and gas generator assemblies perform all phases of overhaul (disassembly, assembly, inspection, removal and installation of parts, adjustment or calibration, and isolation of malfunctions) except for test procedures. Also, a majority of the personnel perform assembly, disassembly, and inspection of piston, poppet, and check valves.

The distribution body personnel do all of the overhaul tasks, except for adjusting and calibrating, on the distribution body and its assemblies, and on piston valves.

D. General Maintenance Personnel (GRP135, N=26). The 26 members of this job spend most of their time (82 percent) on general maintenance and administrative or supply functions. An additional 4 percent of their total time spent is on cleaning and corrosion removal tasks. The majority of the workers (54 percent) are WG-09 and an additional 27 percent are WG-10. The personnel are spread among three shops: MATPPE, MATPPH, and MATPFA. In addition to the common cluster tasks this group also performs:

remove corrosion using hand wire brushes  
make entries on or complete AFLC Forms 945 (Routed Order)  
research microfiche files for supply or parts data  
lap, polish, or buff components or parts  
make entries on or complete DD Forms 1577  
(Unserviceable (Condemned) Tag Material)

E. On Condition Maintenance (OCM) Personnel (GRP166, N=7). Personnel in this small job group of seven, perform similar tasks as those directly above, but additional tasks directly related to the F-100 UFC are also performed. The personnel are a mixture of all wage grades, the largest group being WG-10 (43 percent). All workers are in MATPFA and their distinguishing tasks are:

demate F-100 UFC augmentor computers from distribution bodies  
demate F-100 UFC gas generators from augmentor sets  
mate F-100 UFC distribution bodies to augmentor computers  
mate F-100 UFC gas generators to augmentor sets  
inspect F-100 augmentor computers, gas generators, and/or distribution bodies

III. FUEL SYSTEM ACCESSORY TEST PERSONNEL (GRP84, N=5). This independent job type is made up of all WG-10 personnel from MATPPE, except for one WG-05. This is a specialized group performing an average of 30 tasks centering around fuel system accessories. An example of the tasks are listed below:

perform preoperational inspections on test stands, test carts, or testers  
preserve or depreserve components or parts  
perform final tests of CIVV controller cylinders  
perform final tests of oil coolers  
perform electrical phase angle checks

IV. NOZZLE AND FC TEST AND OVERHAUL PERSONNEL CLUSTER (GRP55, N=38). This cluster of 38 members spends 54 percent of their time on general maintenance tasks and administrative or supply functions. Cleaning and corrosion removal tasks were also highly common among the personnel, but low in average time spent, 5 percent. The characteristic tasks include:

route components, assemblies, or parts to other sections  
make entries on or complete AFLC Forms 945 (Routed Order)

lap, polish, or buff components or parts  
make entries on or complete DD Forms 1577  
(Unserviceable (Condemned) Tag Material)  
verify configuration of parts or components

The average number of tasks performed by the three job groups within the cluster is 85.

A. TF-39 Fuel Nozzle Test and Assembly Personnel (GRP95, N=7). All seven members of this job are from MATPFF and perform an average of 63 tasks. The majority of the members are WG-09 and spend 37 percent of their time inspecting, assembling, and testing TF-39 fuel nozzles, clusters, and components. In addition, four of the seven members also perform similar tasks on the T-56 fuel nozzles, clusters, and components.

The administrative or supply functions, as well as the general pneumatic maintenance tasks, take up an additional 28 and 26 percent of the time spent on duties, respectively. The use of AFLC and DD forms appears to rank higher in time spent and members performing than most groups in the survey.

B. General Maintenance and Cleaning Personnel (GRP102, N=17). The 17 members in this group are 70 percent WG-09 and 12 percent WG-05. These personnel primarily perform the same duties as the cluster, with additional duties in cleaning and corrosion removal. Characteristic tasks include:

- remove corrosion using hand files, hand wire brushes,  
solvents or thinners
- perform electrical phase angle checks
- remove solder
- maintains precision measurement equipment calibration  
schedules

A group of eight personnel within in this job group do all tasks associated with the GTE FC and its components. These tasks include assembly, adjust or calibrate, inspect, pretests and final tests. All but one is a WG-10.

C. T-56 FC Overhaul and Test Personnel (GRP124, N=6). This job group, containing six members, is made up of mostly WG-10. The majority of the members are from MATPFF. This group differs from the cluster in the amount of time spent on T-56 FC (27 percent). Five of the six personnel perform 24 of the 32 tasks associated with the T-56 FC. The primary tasks include assembly, removal and installation, and testing of the FC and various parts and components, such as the main bodies, governors, and pressure actuators.

V. T-56 FC AND NOZZLE DISASSEMBLY PERSONNEL (GRP92, N=14). This independent job type is primarily composed of WG-05 personnel (78 percent) who have been in the occupational series an average of 14 months. All personnel are in MATPPE and spend an average of 48 percent of their time on disassembly and corrosion removal tasks. A few of the tasks are listed below:

- remove corrosion using alkalies, sand blasters, and solvents or thinners
- remove corrosion using nitric acid, carbon removal, and soap solutions
- inspect T-56 fuel nozzles, nozzle components, or parts
- disassemble T-56 FC, main bodies, and fuel nozzles
- remove or install components or parts on T-56 FC rear covers

In addition, 42 percent of the average time spent by the personnel is on general pneudraulic maintenance tasks and administrative or supply functions.

VI. T-56 FC ASSEMBLY PERSONNEL (GRP79, N=8). The eight members from this group are WG-10 personnel in MATPFF. They perform an average of 30 tasks. Fifty-five percent of the time spent by all members is in general pneudraulic maintenance tasks, while 32 percent of the time spent is in overhauling, repairing, inspecting, or testing T-56 FC. The distinguishing tasks include assembling and adjusting or calibrating T-56 FC. Several other tasks associated with the T-56 FC are performed by 50 percent or less of the personnel, but have a high average percent time spent by members performing. These tasks include assembling T-56 FC pressure actuators, governors, and main bodies.

VII. T-56 FC FINAL TEST PERSONNEL (GRP108, N=9). Eight of the nine personnel in this independent job are WG-10. All are in MATPFF and perform an average of 29 tasks. Three-quarters of the time spent by all members is in testing T-56 FC and general maintenance tasks, 39 and 35 percent, respectively. These members appear highly specialized, performing almost exclusively testing tasks associated with the T-56 FC. Examples of the tasks include:

- perform final tests of T-56 FC using automatic and/or manual test stands
- perform leak checks or pressure checks of T-56 FC
- perform precalibration tests of T-56 FC using automatic and/or manual test stands
- perform preoperational inspections on test stands, test carts, or testers

VIII. AUGMENTOR COMPUTER TEST PERSONNEL (GRP64, N=6). This individual job consists of six members, four of whom are WG-10. All are in MATPFA and spend over 50 percent of their time on tasks related to testing augmentor computers. They perform an average of 36 tasks and appear highly specialized. Characteristic tasks include:

- adjust or calibrate F-100 UFC augmentor computer assemblies, such as ratio bracket assemblies
- test F-100 UFC augmentor computer
- isolate malfunctions on F-100 UFC augmentor computer assemblies such as ratio bracket assemblies
- isolate malfunctions on F-100 UFC augmentor computer

IX. F-100 FUEL NOZZLE TEST AND ASSEMBLY PERSONNEL (GRP94, N=5). The five incumbents in this job are WG-09 and are located in MATPFF. They perform an average of 29 tasks and spend 50 percent of their time on 12 tasks. This group appears very specialized in the test and assembly functions of F-100 fuel nozzles. Example tasks include:

- test F-100 fuel nozzles
- isolate malfunctions on F-100 fuel nozzles
- assemble F-100 fuel nozzle components
- remove or install parts on F-100 fuel nozzles or nozzle components
- inspect F-100 fuel nozzles, nozzle components, or parts
- assemble F-100 fuel nozzles

X. F-100 UFC ACCESSORY TEST PERSONNEL (GRP36, N=5). Three of the five members in this group are WG-10 and all incumbents are in the MATPFA shop. Unlike any other group in this analysis, general pneudraulic duties and administrative and functional duties do not make up a meaningful amount of time spent by these respondents. Fifty-two percent of the time spent by personnel in this group is spent on overhauling, repairing, inspecting, or testing valves and F-100 UFC, 31 and 21 percent respectively. The tasks characteristic of this group are:

- adjust or calibrate piston type valves
- adjust or calibrate F-100 UFC distribution body assemblies, such as sequencing valve assemblies
- perform final test of poppet relief type valves
- test F-100 UFC distribution body assemblies or accessories, such as sequencing valve assemblies

### Comparison of Specialty Jobs

Two main duties dominate 50 percent of the average time spent by the entire sample, general pneudraulic maintenance tasks and administrative or supply functions. Generally, most groups could not be distinguished on the basis of these tasks alone.

Survey data identified two major jobs which account for 59 percent of the pneudraulic workers sampled. The first, Valve and Pump Personnel, perform more tasks (average 219) than any other group in the survey. These pneudraulic workers are primarily WG-09 and spend 50 percent less time on the general pneudraulic maintenance tasks and administrative or supply functions than the average of all the other pneudraulic workers. Job focus for this group of 96 people is overhauling valves and pumps. The second group, F-100 UFC Personnel, perform an average of 46 tasks. Over 73 percent are WG-10. The jobs are split primarily between overhaul and test tasks.

Besides the two main jobs, other unique and specialized jobs are represented. These remaining jobs tend to be very specialized, performing assembling, cleaning and disassembling, or testing of TF-39, T-56 or F-100 nozzles, T-56 FC, F-100 accessories, or F-100 augmentor computers.

Although GRP81, Airframe Valve and Pump Personnel, and GRP87, F-100 UFC Test Personnel, contain several distinct jobs in terms of the actual structure currently at Kelly AFB, they are considered one job in this report. This is a result of the high similarity in overall tasks performed, as determined by percent members performing and average time spent, by all members, on the tasks. As a result, test personnel for the F-100 UFC are more similar in the tasks they perform than they are different in terms of the specific section of the F-100 they test. This same explanation also applies to the valve and pump combination within the first cluster. The personnel are more alike in the tasks they perform than they are not alike in terms of the valve and pump tasks.

One difference appears between the F-100 UFC and T-56 FC personnel. The F-100 UFC personnel grouped into a cluster (GRP74), while T-56 FC personnel separated into independent jobs, depending on the tasks performed. This indicates the difference between T-56 FC tasks are greater than the differences between F-100 UFC tasks. This could be a result of consolidating functions in one shop, as the F-100 UFC, or distribution of functions between two or more shops, as the T-56 FC.

### Paygrade Analysis

The survey consists primarily of three wage grades, WG-05 (10 percent), WG-09 (37 percent), WG-10 (47 percent). Additionally, 3 percent of the personnel were WG-00, apprentices. The apprentices are not discussed in the analysis because they are highly dispersed throughout the groups, but are statistically included for use as needed by the training staff at Kelly AFB. Table 6 shows, by each grade, the average number of tasks performed, the time in occupational series, the distribution by shop, and other data. In Table 7,

TABLE 6  
SELECTED BACKGROUND DATA BY WAGE GRADE

	WAGE GRADE			
	<u>00</u>	<u>05</u>	<u>09</u>	<u>10</u>
NUMBER IN GROUP	11	40	156	198
AVERAGE NUMBER OF TASKS PERFORMED	92	50	115	72
PERCENT RCC DISTRIBUTION**				
MATPFA	9	15	15	63
MATPFF	9	10	9	13
MATPPA	18	2	31	7
MATPPE	27	54	22	10
MATPPH	27	19	23	6
AVERAGE MONTHS IN OCCUPATIONAL SERIES	*	44	56	114

\* Spurious data

\*\* May not add to 100 percent due to rounding or improper book completion

TABLE 7  
TASKS WHICH BEST DIFFERENTIATE BETWEEN WAGE GRADE PERSONNEL  
(PERCENT MEMBERS PERFORMING)

TASKS	WAGE GRADE		
	05 (N=40)	09 (N=156)	10 (N=198)
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	15	49	64
PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	13	37	61
ADJUST OR CALIBRATE F-100 UFC	3	5	44
ISOLATE MALFUNCTIONS ON F-100 UFC AUGMENTOR COMPUTERS	5	5	35
ADJUST OR CALIBRATE F-100 AUGMENTOR COMPUTERS	5	4	34
TEST F-100 UFC	3	3	33
ISOLATE MALFUNCTIONS ON F-100 GAS GENERATOR	5	4	29
REMOVE CORROSION USING HAND WIRE BRUSHES	55	76	36
MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIAL)	33	67	33
REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENT	15	60	45
REMOVE CORROSION USING HAND FILES	30	56	15
SOLDER ELECTRICAL CONNECTIONS	10	48	11
INSPECT CHECK TYPE VALVES, VALVE COMPONENTS, OR PARTS	10	43	17
INSPECT DIAPHRAGM TYPE VALVES, VALVE COMPONENTS, OR PARTS	10	42	13
REMOVE CORROSION USING SOAP SOLUTIONS	50	42	11
REMOVE CORROSION USING NITRIC ACID SOLUTIONS	43	28	7
DISASSEMBLE T-56 FC MAIN BODIES	35	8	5
DISASSEMBLE T-56 FUEL NOZZLES	30	11	1
INSPECT F-100 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	30	12	2

the differences in the wage grades as determined by CODAP are displayed. Appendix B lists tasks performed by each wage grade in descending order of percent members performing.

The WG-05 personnel perform an average of 50 tasks, the least number of any wage grade. The largest concentration of WG-05 personnel is in MATPPE (54 percent), followed by MATPPH (19 percent). They have been in the occupational series for an average of 3.5 years and perform mainly cleaning and disassembly tasks. These tasks are primarily performed on the T-56 FC and nozzle, and valves in the fuel system and hydraulic system shops. They also use fewer AF, AFLC, and DD forms than the other wage grades.

The WG-09 personnel appear to be the workhorse of the pneudraulic mechanics, performing an average of 115 tasks. They are largely concentrated in the MATPPA (31 percent) and MATPPH (23 percent) shops. Having been in the occupational series an average of 4.5 years, the WG-09 personnel perform the majority of the overhaul tasks, including adjusting or calibrating, inspecting, isolating malfunctions, and performing pretests. Valve overhaul utilizes more WG-09 personnel than any other function.

The largest group of personnel in the occupational series is WG-10, comprising 47 percent of the survey. Most of the personnel are located in the MATPFA shop (63 percent). They perform an average of 72 tasks and have been in the occupational series for 9.5 years. These members perform all of the testing functions. Personnel specialize in testing and inspecting different equipment, depending upon the shop assigned. Most of the WG-10 personnel test the F-100 FC or one of its three sections.

Differences between the wage grades are fairly well defined. The main differences are seen in the specific tasks performed by wage grade within the shops. The specific task differences between wage grades within each shop are provided in Appendix C. The WG-05 personnel are not shown on each table because the number of personnel in that shop is below five. Five is the minimum number of personnel used to determine meaningful differences among groups. Although overlaps between tasks performed by grade were found, training personnel at Kelly AFB will have to determine, through closer examination, whether the overlap is due to OJT or whether there is a similarity within the position descriptions within each grade.

#### Maintenance Enhancement Training Analysis

Maintenance enhancement training consists of 12 courses. Tables 8 and 9 display the percentage of courses completed by wage grade and by shop, respectively. As in the previous section, the WG-00 workers are included in the table, but not discussed. Three courses that consistently ranked high among percent members completing the course are shop safety, basic math, and technical order familiarization. The completion percentage rate, for all survey respondents in these courses, ranges from 82 percent to 72 percent. The next highest course completed, hazardous chemical safety, is 59 percent. It appears the most basic knowledge needed for all workers is contained in the three courses mentioned above; however, other courses that appear to have much

TABLE 8  
PERCENT OF WAGE GRADE COMPLETING MAINTENANCE  
ENHANCEMENT TRAINING COURSES

COURSES	WAGE GRADE				TOTAL SAMPLE
	<u>00</u>	<u>05</u>	<u>09</u>	<u>10</u>	
BASIC MATH	82	63	90	80	82
SHOP SAFETY	73	68	83	67	74
TECHNICAL ORDER FAMILIARIZATION	91	65	84	63	72
SAFETY WIRING	64	40	68	57	59
HAZARDOUS CHEMICAL SAFETY	64	43	74	51	59
PRECISION MEASUREMENT EQUIPMENT	55	18	69	46	51
SELECTION, USE, AND CARE OF TOOLS	27	8	58	38	42
DIRECT CURRENT	46	13	53	38	41
PRINCIPLES OF ELECTRICITY	46	13	45	42	40
CORROSION CONTROL	55	20	47	37	40
ELECTRICAL THEORY	36	13	44	43	39
FLUORESCENT PENETRANT INSPECTION	18	3	14	12	12
MAGNETIC PARTICLE INSPECTION	9	8	15	11	12
NO COURSES COMPLETED	0	8	5	8	7

TABLE 9  
PERCENT OF SHOP PERSONNEL COMPLETING MAINTENANCE  
ENHANCEMENT TRAINING COURSES

<u>COURSES</u>	SHOP (MATP )					<u>TOTAL SAMPLE</u>
	<u>FA</u>	<u>FF</u>	<u>PA</u>	<u>PE</u>	<u>PH</u>	
BASIC MATH	79	86	100	79	75	82
SHOP SAFETY	69	72	88	77	70	74
TECHNICAL ORDER FAMILIARIZATION	65	58	91	79	77	72
SAFETY WIRING	58	40	82	65	50	59
HAZARDOUS CHEMICAL SAFETY	53	47	87	65	62	59
PRECISION MEASUREMENT EQUIPMENT	50	35	90	47	38	51
SELECTION, USE, AND CARE OF TOOLS	33	35	96	29	30	42
DIRECT CURRENT	38	33	54	47	32	41
PRINCIPLES OF ELECTRICITY	41	33	47	46	32	40
CORROSION CONTROL	43	30	44	47	30	40
ELECTRICAL THEORY	41	35	44	42	30	39
FLUORESCENT PENETRANT INSPECTION	17	16	9	11	5	12
MAGNETIC PARTICLE INSPECTION	15	16	13	14	5	12
NO COURSES COMPLETED	8	12	0	6	8	7

impact on basic knowledge such as selection, use, and care of tools rank poorly. The other courses may pertain to more specialized duties and, therefore, are needed for select personnel depending on their job.

The percent members completing courses between wage grades and between shops often varied 10 percent or more. The WG-09 and MATPPA personnel consistently had a higher completion percentage than the overall sample. The similarity between wage grade and shop is expected, since the highest concentration of WG-09 personnel is in MATPPA. Time in the occupational series had no apparent effect on the completion percentage. No significant difference or trend could be noted to explain the results of the course completion rate in any of the above areas. Who was and was not trained appears ambiguous, as opposed to structured.

#### TRAINING ANALYSIS

Since there is no occupational series training standard (OSTS) or job qualification training standard (JQTS), no comparison evaluation can be performed using the current survey data. The tasks most beneficial to the training personnel for an OSTs and JQTS are high in both percent members performing and percent time spent. The tasks meeting the above criteria are presented in the training extract by the entire 8255 Occupational Series, each shop, each wage grade, and each wage grade within shop. Based on the instructions from the training personnel at Kelly AFB, the tasks are ranked according to percent members performing.

Briefly, the duties containing the highest percent members performing are general pneudraulic maintenance tasks and administrative or supply functions. Each of the five shops perform large numbers of tasks in the two duties listed. In addition, there are tasks performed by at least 50 percent of the respondents in other duties. These additional duties by shop are: MATPFA-overhauling, repairing, inspecting, or testing F-100 UFC, MATPFF-overhauling, repairing, inspecting, or testing T-56 FC, MATPPA-overhauling, repairing, inspecting, or testing valves and pumps, as well as corrosion removal functions, MATPPE and MATPPH-corrosion removal. The duties for each of the wage grades was discussed in the paygrade analysis section of the report.

#### SUMMARY

The analysis of the Occupational Series 8255 survey revealed a job structure similar to the current one. The various sections and tables included in this report were determined to be most beneficial for planning, designing, implementing, recording, and validating training by the pneudraulic training personnel and the Occupational Measurement Center.

Through analysis, interpretation, and selection of the data contained in this OSR and training extract, the Occupational Series 8255 training personnel at Kelly AFB will be able to develop and implement a valid OSTS and JQTS. Additional assistance from OMC in the development of the training standards will be readily available to the training personnel at Kelly AFB upon request.

**APPENDIX A**

**TASKS PERFORMED BY JOB GROUP MEMBERS**

TABLE I  
VALVE AND PUMP PERSONNEL CLUSTER (GRP18)

TASKS	PERCENT MEMBERS PERFORMING (N=96)
A7 INSTALL SEALS	99
A22 REMOVE SEALS	99
A20 REMOVE PLUGS, CAPS, OR PLATES	99
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	99
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	99
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	98
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	98
A27 TORQUE COMPONENTS OR PARTS	98
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	97
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	97
A5 INSTALL PLUGS, CAPS, OR PLATES	97
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	96
A2 CLEAN OR LUBRICATE TOOLS	95
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	95
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	95
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	94
B29 BAG OR PACKAGE COMPONENTS OR PARTS	93
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	92
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	92
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	91
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	91
B71 TRANSPORT PARTS TO OTHER SECTIONS	90
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	89
B66 ORDER PARTS OR SUPPLIES	89
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDAMMED) TAG MATERIEL)	89
B69 REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENTS	88
G239 INSPECT CHECK TYPE VALVES, VALVE COMPONENTS, OR PARTS	88
G233 DISASSEMBLE POPPET RELIEF TYPE VALVES	88
L446 REMOVE CORROSION USING HAND FILES	88

TABLE IA  
AIRFRAME VALVE AND PUMP PERSONNEL (GRP81)

<u>TASKS</u>	PERCENT MEMBERS PERFORMING (N=73)
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
A22 REMOVE SEALS	100
A2 CLEAN OR LUBRICATE TOOLS	100
A7 INSTALL SEALS	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
A27 TORQUE COMPONENTS OR PARTS	100
A1 APPLY COATING OR FINISH TO COMPONENTS OR PARTS	99
A5 INSTALL PLUGS, CAPS, OR PLATES	99
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	99
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	99
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	99
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	97
L452 REMOVE CORROSION USING SOLVENTS OR THINNERS	97
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	97
B71 TRANSPORT PARTS TO OTHER SECTIONS	97
A23 REMOVE SOLDER	97
B69 REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENTS	97
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	97
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	97
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	96
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	96
B67 PAINT FACILITIES OR EQUIPMENT	96
A10 PERFORM ELECTRICAL CONTINUITY CHECKS	96
L446 REMOVE CORROSION USING HAND FILES	96

TABLE IB  
FUEL SYSTEM VALVE AND PUMP PERSONNEL (GRP72)

TASKS	PERCENT MEMBERS PERFORMING (N=5)
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
G239 INSPECT CHECK TYPE VALVES, VALVE COMPONENTS, OR PARTS	100
G247 INSPECT RELIEF TYPE VALVES, VALVE COMPONENTS, OR PARTS, OTHER THAN POPPET RELIEF TYPE VALVES	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	100
G211 ADJUST OR CALIBRATE RELIEF TYPE VALVES, OTHER THAN POPPET RELIEF TYPE VALVES	100
B29 BAG OR PACKAGE COMPONENTS OR PARTS	100
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	100
A22 REMOVE SEALS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A27 TORQUE COMPONENTS OR PARTS	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A7 INSTALL SEALS	100
H337 DISASSEMBLE VANE TYPE PUMPS, OTHER THAN IMPELLER VANE TYPE PUMPS	80
H340 INSPECT GEAR DRIVEN TYPE PUMPS, PUMP COMPONENTS, OR PARTS	80
H343 INSPECT IMPELLER VANE TYPE PUMPS, PUMP COMPONENTS, OR PARTS	80
G221 ASSEMBLE POPPET RELIEF TYPE VALVES	80
G233 DISASSEMBLE POPPET RELIEF TYPE VALVES	80
A1 APPLY COATING OR FINISH TO COMPONENTS OR PARTS	80
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	80
B61 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577-2 (UNSERVICEABLE (REPARABLE) TAG MATERIEL)	80

TABLE IC  
HYDRAULIC SYSTEM VALVE PERSONNEL (GRP77)

TASKS	PERCENT MEMBERS PERFORMING (N=11)
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A22 REMOVE SEALS	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
A7 INSTALL SEALS	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A27 TORQUE COMPONENTS OR PARTS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
G268 PERFORM FINAL TESTS OF PISTON TYPE VALVES	91
G239 INSPECT CHECK TYPE VALVES, VALVE COMPONENTS, OR PARTS	91
G204 ADJUST OR CALIBRATE DIAPHRAGM TYPE VALVES	91
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	91
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	91
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	91
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	91
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	91
B69 REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENTS	82
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	82
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	82
G278 PERFORM PRESET ADJUSTMENTS ON PISTON TYPE VALVE COMPONENTS	82
G279 PERFORM PRESET ADJUSTMENTS ON POPPET RELIEF VALVE COMPONENTS	82
G232 DISASSEMBLE PISTON TYPE VALVES	82
G233 DISASSEMBLE POPPET RELIEF TYPE VALVES	82
G228 DISASSEMBLE DIAPHRAGM TYPE VALVES	82
G244 INSPECT PISTON TYPE VALVES, VALVE COMPONENTS, OR PARTS	82

TABLE II  
F-100 UFC PERSONNEL CLUSTER (GRP74)

TASKS	PERCENT MEMBERS PERFORMING (N=153)
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	98
A20 REMOVE PLUGS, CAPS, OR PLATES	97
A5 INSTALL PLUGS, CAPS, OR PLATES	94
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	93
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	92
A27 TORQUE COMPONENTS OR PARTS	92
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	92
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	91
A22 REMOVE SEALS	90
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	89
A7 INSTALL SEALS	86
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	83
B66 ORDER PARTS OR SUPPLIES	82
B71 TRANSPORT PARTS TO OTHER SECTIONS	82
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	81
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	80
A2 CLEAN OR LUBRICATE TOOLS	76
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	70
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	63
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	63
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	59
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	59
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	58
C72 ADJUST OR CALIBRATE F-100 UFC	56
B67 PAINT FACILITIES OR EQUIPMENT	56
C98 ISOLATE MALFUNCTIONS ON F-100 UFC	55
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	54
B44 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 459 (QUALITY DATA INPUT RECORD)	51

TABLE IIA  
F-100 UFC TEST PERSONNEL (GRP87)

TASKS	PERCENT MEMBERS PERFORMING (N=83)
A20 REMOVE PLUGS, CAPS, OR PLATES	99
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	98
A5 INSTALL PLUGS, CAPS, OR PLATES	96
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	95
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	95
A27 TORQUE COMPONENTS OR PARTS	94
C72 ADJUST OR CALIBRATE F-100 UFC	92
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	92
A22 REMOVE SEALS	90
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	87
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	87
A7 INSTALL SEALS	86
B71 TRANSPORT PARTS TO OTHER SECTIONS	86
C98 ISOLATE MALFUNCTIONS ON F-100 UFC	83
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	82
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	81
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	80
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	80
C111 TEST F-100 UFC	80
B66 ORDER PARTS OR SUPPLIES	78
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	77
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	73
A2 CLEAN OR LUBRICATE TOOLS	70
B44 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 459 (QUALITY DATA INPUT RECORD)	67
C74 ADJUST OR CALIBRATE F-100 UFC AUGMENTOR COMPUTERS	66
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	64
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	61
C78 ADJUST OR CALIBRATE F-100 UFC GAS GENERATORS	61

TABLE IIB  
AUGMENTOR COMPUTER OVERHAUL PERSONNEL (GRP125)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=21)</u>
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A10 PERFORM ELECTRICAL CONTINUITY CHECKS	100
A12 PERFORM ELECTRICAL RESISTANCE CHECKS	100
A20 REMOVE PLUGS, CAPS, OR PLATES	95
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	95
A2 CLEAN OR LUBRICATE TOOLS	95
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	95
C99 ISOLATE MALFUNCTIONS ON F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	95
A27 TORQUE COMPONENTS OR PARTS	95
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	95
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	95
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	90
A5 INSTALL PLUGS, CAPS, OR PLATES	90
C100 ISOLATE MALFUNCTIONS ON F-100 UFC AUGMENTOR COMPUTERS	90
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	90
B66 ORDER PARTS OR SUPPLIES	90
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	90
A7 INSTALL SEALS	90
C108 REMOVE OR INSTALL PARTS ON F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	90
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	86
C92 INSPECT F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	86
C93 INSPECT F-100 UFC AUGMENTOR COMPUTERS	86
C86 DISASSEMBLE F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	86
B71 TRANSPORT PARTS TO OTHER SECTIONS	86
A22 REMOVE SEALS	86

TABLE IIC  
GAS GENERATOR AND DISTRIBUTION BODY OVERHAUL PERSONNEL  
(GRP115)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=11)</u>
A27 TORQUE COMPONENTS OR PARTS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	100
A2 CLEAN OR LUBRICATE TOOLS	100
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
A7 INSTALL SEALS	100
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
B58 MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	91
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	91
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	91
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	91
B66 ORDER PARTS OR SUPPLIES	91
A20 REMOVE PLUGS, CAPS, OR PLATES	91
A5 INSTALL PLUGS, CAPS, OR PLATES	91
B29 BAG OR PACKAGE COMPONENTS OR PARTS	91
A22 REMOVE SEALS	91
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	82
B61 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577-2 (UNSERVICEABLE (REPARABLE) TAG MATERIEL)	82
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	73
B71 TRANSPORT PARTS TO OTHER SECTIONS	73
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	73
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	73
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	73
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	73

TABLE IID  
GENERAL MAINTENANCE PERSONNEL (GRP135)

TASKS	PERCENT MEMBERS PERFORMING (N=26)
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A5 INSTALL PLUGS, CAPS, OR PLATES	96
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	96
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	92
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	92
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	92
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	88
A22 REMOVE SEALS	88
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	88
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	88
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	85
B66 ORDER PARTS OR SUPPLIES	85
A27 TORQUE COMPONENTS OR PARTS	85
A7 INSTALL SEALS	81
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	81
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	77
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	77
B71 TRANSPORT PARTS TO OTHER SECTIONS	77
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	77
A2 CLEAN OR LUBRICATE TOOLS	73
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	73
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	65
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	62
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	58
B32 MAKE ENTRIES ON OR COMPLETE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	58
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	54

TABLE IIE  
ON CONDITION MAINTENANCE (OCM) PERSONNEL (GRP166)

TASKS	PERCENT MEMBERS PERFORMING (N=7)
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
B66 ORDER PARTS OR SUPPLIES	100
C105 MATE F-100 UFC DISTRIBUTION BODIES TO AUGMENTOR COMPUTERS	100
C106 MATE F-100 UFC GAS GENERATORS TO AUGMENTOR SETS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
C85 DEMATE F-100 UFC GAS GENERATORS FROM AUGMENTOR SETS	100
C84 DEMATE F-100 UFC AUGMENTOR COMPUTERS FROM DISTRIBUTION BODIES	100
C97 INSPECT F-100 UFC GAS GENERATORS	86
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	86
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	86
A12 PERFORM ELECTRICAL RESISTANCE CHECKS	86
A27 TORQUE COMPONENTS OR PARTS	86
B71 TRANSPORT PARTS TO OTHER SECTIONS	86
A22 REMOVE SEALS	86
A10 PERFORM ELECTRICAL CONTINUITY CHECKS	86
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	86
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	86
B67 PAINT FACILITIES OR EQUIPMENT	86
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	71
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	71
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	71
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	71
C93 INSPECT F-100 UFC AUGMENTOR COMPUTERS	71
C94 INSPECT F-100 UFC DISTRIBUTION BODIES	71

TABLE III  
FUEL SYSTEM ACCESSORY TEST PERSONNEL (GRP84)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=5)</u>
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A27 TORQUE COMPONENTS OR PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	100
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	100
A11 PERFORM ELECTRICAL PHASE ANGLE CHECKS	80
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	80
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	80
P522 PERFORM FINAL TESTS OF OIL COOLERS	80
N486 PERFORM FINAL TESTS OF CIVV CONTROLLER CYLINDERS	80
B71 TRANSPORT PARTS TO OTHER SECTIONS	80
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	80
A20 REMOVE PLUGS, CAPS, OR PLATES	80
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	80
A22 REMOVE SEALS	60
A12 PERFORM ELECTRICAL RESISTANCE CHECKS	60
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	60
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	60
N489 PERFORM FINAL TESTS OF RCVV CYLINDERS	60
P521 PERFORM FINAL TESTS OF FUEL SENSORS	60
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	60
B33 MAKE ENTRIES ON OR COMPLETE AF FORMS 1530 (PUNCH CARD TRANSCRIPT)	60
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	60
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	60
G269 PERFORM FINAL TESTS OF POPPET RELIEF TYPE VALVES	40
N485 PERFORM FINAL TESTS OF AUGMENTOR FUEL PUMP CONTROLLERS	40
G268 PERFORM FINAL TESTS OF PISTON TYPE VALVES	40

TABLE IV  
NOZZLE AND FC OVERHAUL AND TEST PERSONNEL CLUSTER  
(GRP55)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=38)</u>
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A20 REMOVE PLUGS, CAPS, OR PLATES	97
B29 BAG OR PACKAGE COMPONENTS OR PARTS	97
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	95
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	95
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	95
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	95
A27 TORQUE COMPONENTS OR PARTS	95
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	92
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	92
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	92
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	89
A2 CLEAN OR LUBRICATE TOOLS	89
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	87
B66 ORDER PARTS OR SUPPLIES	87
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	87
A7 INSTALL SEALS	84
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	84
B71 TRANSPORT PARTS TO OTHER SECTIONS	84
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	84
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	84
A22 REMOVE SEALS	82
B58 MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	82
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	79
B61 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577-2 (UNSERVICEABLE (REPARABLE) TAG MATERIEL)	79

TABLE IVA  
TF-39 FUEL NOZZLE TEST AND ASSEMBLY PERSONNEL (GRP95)

TASKS	PERCENT MEMBERS PERFORMING (N=7)
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	100
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	100
B71 TRANSPORT PARTS TO OTHER SECTIONS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A27 TORQUE COMPONENTS OR PARTS	100
F191 INSPECT TF-39 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	86
B61 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577-2 (UNSERVICEABLE (REPARABLE) TAG MATERIEL)	86
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	86
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	86
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	86
B58 MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	86
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	86
F198 REMOVE OR INSTALL PARTS ON TF-39 FUEL NOZZLES OR NOZZLE COMPONENTS	86
B29 BAG OR PACKAGE COMPONENTS OR PARTS	86
B66 ORDER PARTS OR SUPPLIES	86
A20 REMOVE PLUGS, CAPS, OR PLATES	86
F178 ASSEMBLE TF-39 FUEL NOZZLES	86
F176 ASSEMBLE TF-39 FUEL NOZZLE CLUSTERS	86
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	86
F177 ASSEMBLE TF-39 FUEL NOZZLE COMPONENTS	86
F190 INSPECT TF-39 FUEL NOZZLE CLUSTERS	86
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	71
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	71
A2 CLEAN OR LUBRICATE TOOLS	71

TABLE IVB  
GENERAL MAINTENANCE AND CLEANING PERSONNEL (GRP102)

TASKS	PERCENT MEMBERS PERFORMING (N=17)
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	100
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	100
A1 APPLY COATING OR FINISH TO COMPONENTS OR PARTS	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
B58 MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	100
A2 CLEAN OR LUBRICATE TOOLS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
B29 BAG OR PACKAGE COMPONENTS OR PARTS	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
B71 TRANSPORT PARTS TO OTHER SECTIONS	94
L446 REMOVE CORROSION USING HAND FILES	94
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	94
A7 INSTALL SEALS	94
A22 REMOVE SEALS	94
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	94
L452 REMOVE CORROSION USING SOLVENTS OR THINNERS	94
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	94
B66 ORDER PARTS OR SUPPLIES	94
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	94
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	94
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	88
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	88
B67 PAINT FACILITIES OR EQUIPMENT	88
A27 TORQUE COMPONENTS OR PARTS	88
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	88

TABLE IVC  
T-56 FC OVERHAUL AND TEST PERSONNEL (GRP124)

TASKS	PERCENT MEMBERS PERFORMING (N=6)
D149 TEST T-56 FC ASSEMBLIES, SUCH AS FRONT BODIES	100
B31 MAINTAIN PRECISION MEASUREMENT EQUIPMENT CALIBRATION SCHEDULES	100
A7 INSTALL SEALS	100
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
D145 REMOVE OR INSTALL PARTS ON T-56 FC GOVERNORS	100
D146 REMOVE OR INSTALL PARTS ON T-56 FC MAIN BODIES	100
D147 REMOVE OR INSTALL PARTS ON T-56 FC PRESSURE ACTUATORS	100
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	100
D142 REMOVE OR INSTALL COMPONENTS OR PARTS ON T-56 FC FRONT BODIES	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
D143 REMOVE OR INSTALL COMPONENTS OR PARTS ON T-56 FC REAR COVERS	100
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A27 TORQUE COMPONENTS OR PARTS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
B29 BAG OR PACKAGE COMPONENTS OR PARTS	100
D128 DISASSEMBLE T-56 FC	83
B32 MAKE ENTRIES ON OR COMPLETE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	83
D120 ASSEMBLE T-56 FC FRONT BODIES	83
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	83
D132 DISASSEMBLE T-56 FC PRESSURE ACTUATORS	83
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	83
D130 DISASSEMBLE T-56 FC GOVERNORS	83
D148 REMOVE OR INSTALL PARTS ON T-56 FC TEMPERATURE PROBES	83

TABLE V  
T-56 FC AND NOZZLE DISASSEMBLY PERSONNEL (GRP92)

TASKS	PERCENT MEMBERS PERFORMING (N=14)
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
L451 REMOVE CORROSION USING SOAP SOLUTIONS	93
D128 DISASSEMBLE T-56 FC	93
B29 BAG OR PACKAGE COMPONENTS OR PARTS	93
D131 DISASSEMBLE T-56 FC MAIN BODIES	93
L443 REMOVE CORROSION USING ALKALIES	93
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	93
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	86
A20 REMOVE PLUGS, CAPS, OR PLATES	86
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	86
L449 REMOVE CORROSION USING NITRIC ACID SOLUTIONS	86
F184 DISASSEMBLE T-56 FUEL NOZZLES	86
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	86
A5 INSTALL PLUGS, CAPS, OR PLATES	86
L452 REMOVE CORROSION USING SOLVENTS OR THINNERS	86
L450 REMOVE CORROSION USING SAND BLASTERS	86
A22 REMOVE SEALS	79
D146 REMOVE OR INSTALL PARTS ON T-56 FC MAIN BODIES	79
D133 DISASSEMBLE T-56 FC REAR COVERS	79
F188 INSPECT F-100 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	79
D129 DISASSEMBLE T-56 FC FRONT BODIES	79
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	79
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	79
L444 REMOVE CORROSION USING CARBON REMOVAL SOLUTIONS	71
F189 INSPECT T-56 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	71
B66 ORDER PARTS OR SUPPLIES	71
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	71
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	71
D142 REMOVE OR INSTALL COMPONENTS OR PARTS ON T-56 FC FRONT BODIES	71
D143 REMOVE OR INSTALL COMPONENTS OR PARTS ON T-56 FC REAR COVERS	71

TABLE VI  
T-56 FC ASSEMBLY PERSONNEL (GRP79)

TASKS	PERCENT MEMBERS PERFORMING (N=8)
A7 INSTALL SEALS	100
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	100
D119 ASSEMBLE T-56 FC	88
A2 CLEAN OR LUBRICATE TOOLS	88
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	88
D118 ADJUST OR CALIBRATE T-56 FC ASSEMBLIES	88
A5 INSTALL PLUGS, CAPS, OR PLATES	88
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	88
A27 TORQUE COMPONENTS OR PARTS	88
A22 REMOVE SEALS	75
A20 REMOVE PLUGS, CAPS, OR PLATES	75
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	75
B66 ORDER PARTS OR SUPPLIES	63
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	63
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	50
B71 TRANSPORT PARTS TO OTHER SECTIONS	50
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	50
D126 ASSEMBLE T-56 FC SOLENOIDS	50
B20 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	50
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	50
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	50
D146 REMOVE OR INSTALL PARTS ON T-56 FC MAIN BODIES	50
D122 ASSEMBLE T-56 FC MAIN BODIES	50
B29 BAG OR PACKAGE COMPONENTS OR PARTS	50
D147 REMOVE OR INSTALL PARTS ON T-56 FC PRESSURE ACTUATORS	38
A1 APPLY COATING OR FINISH TO COMPONENTS OR PARTS	38
D121 ASSEMBLE T-56 FC GOVERNORS	38
D128 DISASSEMBLE T-56 FC	38
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	38

TABLE VII  
T-56 FC FINAL TEST PERSONNEL (GRP108)

TASKS	PERCENT MEMBERS PERFORMING (N=9)
D137 PERFORM FINAL TESTS OF T-56 FC USING AUTOMATIC TEST STANDS	100
A27 TORQUE COMPONENTS OR PARTS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
D139 PERFORM LEAK CHECKS OR PRESSURE CHECKS OF T-56 FC	100
D141 PERFORM PRECALIBRATION TESTS OF T-56 FC USING MANUAL TEST STANDS	100
D138 PERFORM FINAL TESTS OF T-56 FC USING MANUAL TEST STANDS	100
D140 PERFORM PRECALIBRATION TESTS OF T-56 FC USING AUTOMATIC TEST STANDS	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	89
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	89
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	78
A7 INSTALL SEALS	78
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	78
A5 INSTALL PLUGS, CAPS, OR PLATES	78
A20 REMOVE PLUGS, CAPS, OR PLATES	78
D146 REMOVE OR INSTALL PARTS ON T-56 FC MAIN BODIES	67
D145 REMOVE OR INSTALL PARTS ON T-56 FC GOVERNORS	67
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	67
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	67
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	67
B71 TRANSPORT PARTS TO OTHER SECTIONS	56
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	56
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	56
A22 REMOVE SEALS	56
D118 ADJUST OR CALIBRATE T-56 FC ASSEMBLIES	56
A19 PRESERVE OR DEPRESERVE COMPONENTS OR PARTS	44
E161 PERFORM FINAL TESTS ON TF-39 FC USING AUTOMATIC TEST STANDS	44

TABLE VIII  
AUGMENTOR COMPUTER TEST PERSONNEL (GRP64)

TASKS	PERCENT MEMBERS PERFORMING (N=6)
C73 ADJUST OR CALIBRATE F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
C100 ISOLATE MALFUNCTIONS ON F-100 UFC AUGMENTOR COMPUTERS	100
C99 ISOLATE MALFUNCTIONS ON F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	100
A5 INSTALL PLUGS, CAPS, OR PLATES	83
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	83
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	83
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	83
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	83
A27 TORQUE COMPONENTS OR PARTS	83
C113 TEST F-100 UFC AUGMENTOR COMPUTERS	83
A2 CLEAN OR LUBRICATE TOOLS	67
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	67
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	67
C93 INSPECT F-100 UFC AUGMENTOR COMPUTERS	67
C92 INSPECT F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	67
C107 PERFORM PRESET ADJUSTMENTS ON F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES	67
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	67
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	50
C112 TEST F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES OR ACCESSORIES, SUCH AS RATIO BRACKET ASSEMBLIES	50
C108 REMOVE OR INSTALL PARTS ON F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	50

TABLE IX  
F-100 FUEL NOZZLE TEST AND ASSEMBLY PERSONNEL (GRP94)

TASKS	PERCENT MEMBERS PERFORMING (N=5)
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	100
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	100
B29 BAG OR PACKAGE COMPONENTS OR PARTS	100
F188 INSPECT F-100 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	100
F196 REMOVE OR INSTALL PARTS ON F-100 FUEL NOZZLES OR NOZZLE COMPONENTS	100
F172 ASSEMBLE F-100 FUEL NOZZLE COMPONENTS	100
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	100
B66 ORDER PARTS OR SUPPLIES	80
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	80
F192 ISOLATE MALFUNCTIONS ON F-100 FUEL NOZZLES	80
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	80
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	80
A5 INSTALL PLUGS, CAPS, OR PLATES	80
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	80
F199 TEST F-100 FUEL NOZZLES	80
F173 ASSEMBLE F-100 FUEL NOZZLES	80
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	60
A27 TORQUE COMPONENTS OR PARTS	60
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	60
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	60
B71 TRANSPORT PARTS TO OTHER SECTIONS	60
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	60
F181 DISASSEMBLE F-100 FUEL NOZZLE COMPONENTS	60
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	60
A20 REMOVE PLUGS, CAPS, OR PLATES	60
F169 ADJUST OR CALIBRATE F-100 FUEL NOZZLE COMPONENTS OR PARTS	60
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	60

TABLE X  
F-100 UFC ACCESSORY TEST PERSONNEL (GRP36)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=5)</u>
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	100
C115 TEST F-100 UFC DISTRIBUTION BODY ASSEMBLIES OR ACCESSORIES, SUCH AS SEQUENCING VALVE ASSEMBLIES	100
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	100
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	100
A2 CLEAN OR LUBRICATE TOOLS	100
C75 ADJUST OR CALIBRATE F-100 UFC DISTRIBUTION BODY ASSEMBLIES, SUCH AS SEQUENCING VALVE ASSEMBLIES	100
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	100
B29 BAG OR PACKAGE COMPONENTS OR PARTS	100
G208 ADJUST OR CALIBRATE PISTON TYPE VALVES	100
A20 REMOVE PLUGS, CAPS, OR PLATES	100
A5 INSTALL PLUGS, CAPS, OR PLATES	100
A27 TORQUE COMPONENTS OR PARTS	100
G268 PERFORM FINAL TESTS OF PISTON TYPE VALVES	80
C112 TEST F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES OR ACCESSORIES, SUCH AS RATIO BRACKET ASSEMBLIES	80
C95 INSPECT F-100 UFC DISTRIBUTION BODY ASSEMBLIES, SUCH AS MANIFOLD FILL SENSORS	80
B66 ORDER PARTS OR SUPPLIES	80
A7 INSTALL SEALS	80
A22 REMOVE SEALS	80
C73 ADJUST OR CALIBRATE F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	80
G269 PERFORM FINAL TESTS OF POPPET RELIEF TYPE VALVES	80
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	80
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	80
C92 INSPECT F-100 UFC AUGMENTOR COMPUTER ASSEMBLIES, SUCH AS RATIO BRACKET ASSEMBLIES	80
G209 ADJUST OR CALIBRATE POPPET RELIEF TYPE VALVES	80
G210 ADJUST OR CALIBRATE POPPET TYPE VALVES, OTHER THAN POPPET RELIEF TYPE VALVES	80
G214 ADJUST OR CALIBRATE SPOOL SLEEVE TYPE VALVES	80
G239 INSPECT CHECK TYPE VALVES, VALVE COMPONENTS, OR PARTS	80

TABLE XI  
TOTAL SAMPLE-OCCUPATIONAL SERIES 8255 (GRP001)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=420)</u>
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	90
A20 REMOVE PLUGS, CAPS, OR PLATES	89
A5 INSTALL PLUGS, CAPS, OR PLATES	89
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	88
A27 TORQUE COMPONENTS OR PARTS	88
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	86
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	86
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	85
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	82
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	81
A22 REMOVE SEALS	79
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	79
A7 INSTALL SEALS	78
B66 ORDER PARTS OR SUPPLIES	77
A2 CLEAN OR LUBRICATE TOOLS	74
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	73
B71 TRANSPORT PARTS TO OTHER SECTIONS	72
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	66
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	66
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	65
B29 BAG OR PACKAGE COMPONENTS OR PARTS	64
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	61
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	60
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	59
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	55
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	54
B67 PAINT FACILITIES OR EQUIPMENT	53
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	52

**APPENDIX B**

**TASKS PERFORMED BY WAGE GRADE**

TABLE I  
WG-00 (SPC49)

TASKS	PERCENT MEMBERS PERFORMING (N=11)
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	91
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	91
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	91
A22 REMOVE SEALS	82
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	82
A7 INSTALL SEALS	82
A27 TORQUE COMPONENTS OR PARTS	82
B66 ORDER PARTS OR SUPPLIES	82
A20 REMOVE PLUGS, CAPS, OR PLATES	82
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	82
B67 PAINT FACILITIES OR EQUIPMENT	73
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	73
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	73
L452 REMOVE CORROSION USING SOLVENTS OR THINNERS	73
B29 BAG OR PACKAGE COMPONENTS OR PARTS	73
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	73
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	73
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	73
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	73
A5 INSTALL PLUGS, CAPS, OR PLATES	73
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	73
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	73
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	73
L446 REMOVE CORROSION USING HAND FILES	64
B69 REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENTS	64
L443 REMOVE CORROSION USING ALKALIES	64
A2 CLEAN OR LUBRICATE TOOLS	64
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	64
B71 TRANSPORT PARTS TO OTHER SECTIONS	64
B31 MAINTAIN PRECISION MEASUREMENT EQUIPMENT CALIBRATION SCHEDULES	55

TABLE II  
WG-05 (SPC50)

TASKS	PERCENT MEMBERS PERFORMING (N=40)
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	90
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	90
A5 INSTALL PLUGS, CAPS, OR PLATES	75
A20 REMOVE PLUGS, CAPS, OR PLATES	75
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	73
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	70
A22 REMOVE SEALS	70
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	70
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	68
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	68
A7 INSTALL SEALS	63
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	63
A2 CLEAN OR LUBRICATE TOOLS	63
B29 BAG OR PACKAGE COMPONENTS OR PARTS	60
B66 ORDER PARTS OR SUPPLIES	55
B71 TRANSPORT PARTS TO OTHER SECTIONS	55
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	55
A27 TORQUE COMPONENTS OR PARTS	55
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	55
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	53
L452 REMOVE CORROSION USING SOLVENTS OR THINNERS	50
L451 REMOVE CORROSION USING SOAP SOLUTIONS	50
L443 REMOVE CORROSION USING ALKALIES	48
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	48
B67 PAINT FACILITIES OR EQUIPMENT	48
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	45
L449 REMOVE CORROSION USING NITRIC ACID SOLUTIONS	43
L444 REMOVE CORROSION USING CARBON REMOVAL SOLUTIONS	43
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	43
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	43

TABLE III  
WG-09 (SPC51)

TASKS	PERCENT MEMBERS PERFORMING (N=156)
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	93
A20 REMOVE PLUGS, CAPS, OR PLATES	92
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	91
A5 INSTALL PLUGS, CAPS, OR PLATES	90
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	90
A27 TORQUE COMPONENTS OR PARTS	90
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	89
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	88
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	86
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	85
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	85
A8 LAP, POLISH, OR BUFF COMPONENTS OR PARTS	83
B66 ORDER PARTS OR SUPPLIES	83
A2 CLEAN OR LUBRICATE TOOLS	81
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	81
R47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	81
B29 BAG OR PACKAGE COMPONENTS OR PARTS	81
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	80
B71 TRANSPORT PARTS TO OTHER SECTIONS	77
A22 REMOVE SEALS	76
A7 INSTALL SEALS	76
L447 REMOVE CORROSION USING HAND WIRE BRUSHES	76
B45 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	75
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	73
B60 MAKE ENTRIES ON OR COMPLETE DD FORMS 1577 (UNSERVICEABLE (CONDEMNED) TAG MATERIEL)	70
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	69
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	69
B58 MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	67

TABLE IV  
WG-10 (SPC52)

<u>TASKS</u>	<u>PERCENT MEMBERS PERFORMING (N=198)</u>
A27 TORQUE COMPONENTS OR PARTS	93
A21 REMOVE SAFETY WIRE OR SAFETY DEVICES	92
A20 REMOVE PLUGS, CAPS, OR PLATES	91
A5 INSTALL PLUGS, CAPS, OR PLATES	91
A6 INSTALL SAFETY WIRE OR SAFETY DEVICES	90
B68 PARTICIPATE IN SEARCHES FOR MISSING TOOLS	86
A3 COMPARE DOCUMENTATION WITH SERIAL NUMBERS OF COMPONENTS OR ASSEMBLY PARTS	86
B30 INVENTORY CONSOLIDATED TOOL KITS (CTK), SPECIAL TOOL KITS (STK), OR INDIVIDUAL TOOL KITS (ITK)	86
A9 LUBRICATE COMPONENTS, PARTS, OR PACKINGS	83
A7 INSTALL SEALS	82
A22 REMOVE SEALS	82
A24 ROUTE COMPONENTS, ASSEMBLIES, OR PARTS TO OTHER SECTIONS	79
B48 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 994 (TOOL INVENTORY LOG)	76
B66 ORDER PARTS OR SUPPLIES	75
B71 TRANSPORT PARTS TO OTHER SECTIONS	74
A2 CLEAN OR LUBRICATE TOOLS	70
B47 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 959 (WORK CONTROL DOCUMENT)	69
B41 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 244 (MATERIAL REQUEST/TURN-IN/CUSTODY RECEIPT)	64
B42 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	64
A28 VERIFY CONFIGURATION OF PARTS OR COMPONENTS	62
A18 PERFORM PREOPERATIONAL INSPECTIONS ON TEST STANDS, TEST CARTS, OR TESTERS	61
A15 PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	61
B46 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 958 (WORK CONTROL DOCUMENT (MEDS))	55
B70 RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	55
A4 ETCH, ENGRAVE, OR METAL STAMP IDENTIFICATION ON COMPONENTS OR PARTS	51
B29 BAG OR PACKAGE COMPONENTS OR PARTS	51
B44 MAKE ENTRIES ON OR COMPLETE AFLC FORMS 459 (QUALITY DATA INPUT RECORD)	50

## APPENDIX C

DIFFERENTIATING TASKS BETWEEN WAGE GRADES WITHIN EACH SHOP

## MATPFA

PERCENT MEMBERS PER-  
FORMING BY WAGE GRADE

<u>TASKS</u>	<u>05 (N=6)</u>	<u>09 (N=24)</u>	<u>10 (N=125)</u>
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	17	42	69
ADJUST OR CALIBRATE F-100 UFC	17	17	66
ISOLATE MALFUNCTIONS ON F-100 UFC	33	8	63
PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CHARTS, OR TESTERS	17	33	60
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 459 (QUALITY DATA INPUT RECORD)	17	42	56
ADJUST OR CALIBRATE F-100 UFC AUGMENTOR COMPUTERS	33	21	52
TEST F-100 UFC	17	13	50
RESEARCH MICROFICHE FILES FOR SUPPLY OF PARTS DATA	50	75	55
BAG OR PACKAGE COMPONENTS OR PARTS	17	71	45
MAKE ENTRIES ON OR COMPLETE DD FORMS 1574 (SERVICEABLE TAG-MATERIAL)	33	50	25
ADJUST OR CALIBRATE PISTON TYPE VALVES	0	38	9
INSPECT PISTON TYPE VALVES, VALVE COMPONENTS, OR PARTS	17	33	5
ADJUST OR CALIBRATE SPOOL SLEEVE TYPE VALVES	0	33	6
ADJUST OR CALIBRATE CHECK TYPE VALVES	0	29	7
ISOLATE MALFUNCTIONS ON PISTON TYPE VALVES	0	29	7
PERFORM PRESET ADJUSTMENTS ON PISTON TYPE VALVE COMPONENTS	0	25	3
PERFORM PRESET ADJUSTMENTS ON SPOOL SLEEVE VALVE TYPE COMPONENTS	0	25	4

## MATPFF

**PERCENT MEMBERS  
PERFORMING BY  
WAGE GRADE**

<u>TASKS</u>	<u>09 (N=11)</u>	<u>10 (N=26)</u>
REMOVE SAFETY WIRE OF SAFETY DEVICES	27	73
ADJUST OR CALIBRATE T-56 FC ASSEMBLIES	0	62
REMOVE OR INSTALL PARTS ON T-56 FC MAIN BODIES	0	54
PERFORM LEAK CHECKS OF PRESSURE CHECKS OF T-56 FC	0	50
PERFORM FINAL TESTS OF T-56 FC USING AUTOMATIC TEST STANDS	0	46
PERFORM FINAL TESTS OF T-56 FC USING MANUAL TEST STANDS	0	46
PERFORM PRECALIBRATION TESTS OF T-56 FC USING MANUAL TEST STANDS	0	46
PERFORM PRECALIBRATION TESTS OF T-56 FC USING AUTOMATIC TEST STANDS	0	42
REMOVE OR INSTALL PARTS ON T-56 FC GOVERNORS	0	38
ASSEMBLE T-56 FC	9	38
ASSEMBLE T-56 FC MAIN BODIES	0	27
ASSEMBLE T-56 FC SOLENOIDS	0	27
DISASSEMBLE T-56 FC	0	27
PERFORM FINAL TESTS ON TF-39 FC USING AUTOMATIC TEST STANDS	0	27
TEST T-56 FC ASSEMBLIES, SUCH AS FRONT BODIES	0	23
ADJUST OR CALIBRATE TF-39 FC	0	23
ISOLATE MALFUNCTIONS ON TF-39 FC	0	23
RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	73	15
ASSEMBLE F-100 FUEL NOZZLES	64	0
REMOVE OR INSTALL PARTS ON F-100 FUEL NOZZLES OR NOZZLE COMPONENTS	64	4
INSPECT F-100 FUEL NOZZLES, NOZZLE COMPONENTS, OR PARTS	64	4
ASSEMBLE F-100 FUEL NOZZLE COMPONENTS	64	4
TEST F-100 FUEL NOZZLES	55	0
ISOLATE MALFUNCTIONS ON F-100 FUEL NOZZLES	55	0
ADJUST OR CALIBRATE F-100 FUEL NOZZLE COMPONENTS OR PARTS	55	0
DISASSEMBLE F-100 FUEL NOZZLES	36	0

## MATPPA

TASKS	PERCENT MEMBERS PERFORMING BY WAGE GRADE	
	09 (N=48)	10 (N=14)
PERFORM FINAL TESTS OF GEAR DRIVEN TYPE PUMPS	4	93
PERFORM FINAL TESTS OF AXIAL PROPELLER TYPE PUMPS	8	93
PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	27	93
PERFORM FINAL TESTS OF IMPELLER VANE TYPE PUMPS	4	86
PERFORM FINAL TESTS OF SLIDE GATE TYPE VALVES	10	79
PERFORM FINAL TESTS OF DIAPHRAGM TYPE VALVES	13	79
PERFORM FINAL TESTS OF FUEL FILTER ASSEMBLIES	19	79
PERFORM FINAL TESTS OF PISTON TYPE ACTUATORS	6	64
REMOVE OR INSTALL COMPONENTS OR PARTS ON CIVV CONTROLLER CYLINDERS	8	64
INSPECT PNEUMATIC REGULATORS, REGULATOR COMPONENTS, OR PARTS	15	64
DISASSEMBLE PNEUMATIC REGULATORS	15	64
ASSEMBLE PNEUMATIC REGULATORS	15	64
PERFORM FINAL TESTS OF FUEL SENSORS	0	57
REMOVE OR INSTALL FUEL SENSOR COMPONENTS OR PARTS	8	57
SWEDGE PARTS	50	29
DISASSEMBLE T-56 FUEL NOZZLE COMPONENTS	23	0
DISASSEMBLE T-56 FUEL NOZZLES	23	0
DISASSEMBLE TF-39 FUEL NOZZLE COMPONENTS	21	0
DISASSEMBLE F-100 FUEL NOZZLES	17	0
DISASSEMBLE TF-39 FUEL NOZZLE CLUSTERS	17	0

## MATPPE

TASKS	PERCENT MEMBERS PERFORMING BY WAGE GRADE		
	05 (N=17)	09 (N=30)	10 (N=16)
VERIFY CONFIGURATION OF PARTS OR COMPONENTS	24	60	75
PERFORM OPERATOR MAINTENANCE ON TEST STANDS, TEST CARTS, OR TESTERS	6	37	69
REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS	6	43	56
DISASSEMBLE IMPELLER VANE TYPE PUMPS	12	10	56
ADJUST OR CALIBRATE IMPELLER VANE TYPE PUMPS	6	3	44
ASSEMBLE VANE TYPE PUMPS, OTHER THAN IMPELLER VANE TYPE PUMPS	6	7	38
INSPECT IMPELLER VANE TYPE PUMPS, PUMP COMPONENTS, OR PARTS	6	13	38
PERFORM FINAL TESTS OF RCVV CYLINDERS	6	3	31
PERFORM PRETESTS OF FUNCTIONAL CHECKS OF VANE TYPE PUMPS, OTHER THAN IMPELLER VANE TYPE PUMPS	6	7	31
ISOLATE MALFUNCTIONS ON IMPELLER VANE TYPE PUMPS	6	10	31
PERFORM FINAL TEST OF IMPELLER GEAR TYPE PUMPS	6	0	25
RESEARCH MICROFICHE FILES FOR SUPPLY OR PARTS DATA	47	87	56
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 945 (ROUTED ORDER)	29	87	44
REMOVE CORROSION USING WIRE BRUSHES	82	77	44
REMOVE CORROSION USING SOLVENTS OR THINNERS	76	73	25
MAKE ENTRIES ON OR COMPLETE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	59	60	38
PERFORM ELECTRICAL CONTINUITY CHECKS	24	57	31
ASSEMBLE CIVV CONTROLLER CYLINDERS	6	33	13
REMOVE OR INSTALL SLIDE GATE TYPE VALVE PARTS	12	20	0
ISOLATE MALFUNCTIONS ON PISTON TYPE PUMPS	6	20	0
ASSEMBLE FUEL FILTER ASSEMBLIES	12	20	0
DISASSEMBLE FUEL FILTER ASSEMBLIES	18	20	0
REMOVE CORROSION USING NITRIC ACID SOLUTIONS	76	13	6
REMOVE CORROSION USING ALKALIES	76	30	19
DISASSEMBLE T-56 FC	59	20	6
DISASSEMBLE T-56 FUEL NOZZLE COMPONENTS	47	3	6
REMOVE OR INSTALL PARTS ON T-56 FUEL NOZZLES OR NOZZLE COMPONENTS	47	3	0
INSPECT TF-39 FUEL NOZZLE CLUSTERS	41	3	0

## MATPPH

TASKS	PERCENT MEMBERS PERFORMING BY WAGE GRADE		
	05 (N=7)	09 (N=36)	10 (N=12)
REQUEST QUALITY CONTROL INVESTIGATIONS FOR REJECTED PARTS OR COMPONENTS	29	42	83
PERFORM PREOPERATIONAL INSPECTIONS ON TEST STAND, TEST CARTS, OR TESTERS	14	33	75
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 355 (OPERATOR MAINTENANCE AND CERTIFICATION LOG)	0	36	75
PERFORM FINAL TESTS OF DIAPHRAGM TYPE VALVES	0	17	67
ISOLATE MALFUNCTIONS ON PISTON TYPE VALVES	14	14	58
PERFORM ELECTRICAL RESISTANCE CHECKS	0	42	58
MAKE ENTRIES ON OR COMPLETE AFLC FORMS 459 (QUALITY DATA INPUT RECORD)	0	6	50
MAINTAIN PRECISION MEASUREMENT EQUIPMENT CALIBRATION SCHEDULES	0	39	17
PERFORM ELECTRICAL PHASE ANGLE CHECKS	0	19	8
PERFORM OPERATOR MAINTENANCE ON CORROSION CONTROL EQUIPMENT	0	19	8
ASSEMBLE PNEUMATIC CENTRIFUGAL SWITCHES	0	19	8
ASSEMBLE PNEUMATIC PRESSURE SWITCHES	0	19	8
DISASSEMBLE T-56 FC SOLENOIDS	0	14	0
DEMAGNETIZE COMPONENTS OR PARTS	0	11	0
INSPECT COMPONENTS OR PARTS USING WHITE LIGHT	0	11	0
DISASSEMBLE FUEL PRESSURE POWERED CYLINDERS	14	0	0
DISASSEMBLE AXIAL PROPELLER TYPE PUMPS	14	0	0
REMOVE OR INSTALL FUEL SENSOR COMPONENTS OR PARTS	14	0	0
REMOVE OR INSTALL IGNITION RELAY COMPONENTS OR PARTS	14	6	0

END

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